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Company: EXAMINER U.S. PATENT OFFICE

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Name: FRANK CONDIALE

Company: DYNAMIC ENERGY LLC

Telephone: 775 828-7392

Comments: ALL TRANSACTIONS PATENT #20020070613
APPLICATION #09-731,637, WILL NOW BE FORWARDED

TO: FRANK CONDIALE 1695 MARVEL WAY, RENO NV 89502
From: J Condiale

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*Do not enter
amendments
JHJ*

2. A prime mover comprising a cylindrical framework wound with at least two copper filaments, a steel piston disposed axially concentric with said framework, a power source for energizing one of said copper filaments with electric current which induces said steel piston to move axially toward a central position of said copper filaments, and at least one switch for controlling the energy flow in each of said copper filaments further comprising a permanent magnetic source for accelerating a reciprocation motion of said steel piston located at at least one end of said cylindrical framework..

*do not enter
amendment.
JHG*

1. A prime mover comprising a cylindrical framework wound with at least two copper filaments, a steel piston of spherical shape disposed axially concentric with said framework, a power source for energizing one of said copper filaments with electric current which induces said steel piston to move axially toward a central position of said copper filaments, and at least one switch for controlling the energy flow in each of said copper filaments wherein said filaments are alternately energized to allow reciprocal movement.

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Name: Judson H Jones

Name: Frank J Cordiale

Company: _____

Company: _____

Telephone: _____

Telephone: 775 828 7392

Fax: _____

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CONFIDENTIAL**ORIGINAL**

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application
FRANK CORDIALE
Serial No. 09/731,637
Filed:
For BRUSHLESS ELECTRIC MOTOR

Examiner: JUDSON JONES
Art Unit: 2834

*do not enter
amendments
J212*

This Amendment is in response to the Office Action
dated

1.(Amended) The Prime Mover consists of a cylinder, steel piston, bar shape, alternately spherical shape piston disposed axially concentric with cylinder and connected to a connecting rod and crank shaft for rotation. The cylinder is cylindrical in shape constructed with an integral center divider of proper diameter and thickness so as to provide separation of windings. Material of construction is high temperature resistant polymer. The polymer cylinder is wound with copper filament above and below the center divider. Flush with each side of the divider are "half moon shaped", permanent magnets held in place under the windings, these magnets are for the purpose of providing a control means for positioning the starting point of the piston when windings are de-energized. The other feature incorporated in the prime mover assembly and function is one circular permanent magnet located above top of piston chamber and mounted for adjustment to allow up and down movement of magnet as desired for inter-action with magnetic flux, thus allowing an unexplained speed increase of piston. This was proven in the operating prototype Brushless Electric Motor.

page 1 of

*Copy
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To Brain Kelly
February 11, 2003*

*Frank J Cordiale
9:30 Am PST*

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application

FRANK CORDIALE

Serial No. 09/731,637

Filed:

For BRUSHLESS ELECTRIC MOTOR

Examiner: JUDSON JONES

Art Unit:2834

AMMENDMENT

2. (Amended) [A prime mover as set forth in Claim 1] A prime mover as described in Claim 1 is equipped with a electrical control circuit that distributes current to upper and lower portions of windings. See Optical Switch Wiring Diagram page 1 of 6. Each part of the cylinder is separately wound with one continuous copper wire, upper portion of cylinder is wound clockwise and lower portion of cylinder is wound counter clockwise. The Windings of upper portion terminate at top juncture of cylinder retainer. The windings of the lower portion terminate at the bottom juncture of retainer.

Prime mover operation is accomplished by alternate energization of top and bottom windings which introduces alternating electromagnetic forces acting on the steel piston and establishing reciprocating motion.

There is a flywheel connected to the crank shaft that is equipped with a special high polished aluminum disk. The surface area at face of the disk is designed to interface during rotation with the optical switches beams to open and close voltage distribution, a section of the disk is covered with black dye to interrupt reflection to optical switches the remaining high polished surface area reflects back to optical switches and turns them on. This is accomplished by proper ratio of allocated polished surface area to the black dyed portion surface area of disk to cause a time duration, on, off. This is coordinated with the piston position in prime mover. The location of the optical switches is at 9 o'clock and 3 o'clock toward face of the flywheel disk mounted to allow time dwell adjustment and positioned in such manner as to allow proper interface with the disk. These optical switches are also enclosed to prevent transient light sources that may cause interference with reflection to optical switches.

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application

FRANK CORDIALE

Serial No. 09/731,637

Examiner: JUDSON JONES

Filed:

Art Unit:2834

For BRUSHLESS ELECTRIC MOTOR

Dear Sir:

This Amendment is in response to the Office Action dated

3.(Amended) A prime mover as set forth in Claim [1] wherein incorporated in the prime mover assembly and function is one circular permanent magnet located above top of piston chamber and mounted for adjustment to allow up and down movement of magnet as desired.

Furthermore when the prime mover does not require an open lower portion another circular permanent magnet can be installed to allow a reciprocating piston situation for applications such as air compressor. For example two chamber one piston without any external connections.

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In re application

FRANK CORDIALE

Serial No. 09/731,637

Examiner: JUDSON JONES

Filed:

Art Unit:2834

For BRUSHLESS ELECTRIC MOTOR

This Amendment is in response to the Office Action
dated

4.(Amended) A prime mover as set forth in Claim[1] wherein the windings are on a cylinder constructed of high temperature resistant polymer, that is equipped with a center divider. Flush with each side of the divider are "half moon shaped", permanent magnets held in place under the windings, these magnets maintain the positioning of the piston for automatic start up when windings are de-energized.

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application

FRANK CORDIALE

Serial No. 09/731,637

Examiner: JUDSON JONES

Filed:

Art Unit:2834

For BRUSHLESS ELECTRIC MOTOR

This Amendment is in response to the Office Action
dated

5.(Amended) A prime mover as set forth in Claim [1] [wherin
The cylinder Material of construction is high temperature
resistant polymer. The inside diameter of the cylinder is
bored and reamed to a slip fit tolerance for the piston .

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application

FRANK CORDIALE

Serial No. 09/731,637

Examiner: JUDSON JONES

Filed:

Art Unit:2834

For BRUSHLESS ELECTRIC MOTOR

This Amendment is in response to the Office Action
dated

6. (Amended) A prime mover as set forth in Claim [1] [wherin
The cylinder Material of construction is high temperature
resistant polymer, and does not require an insert, instead
the inside diameter of the cylinder is bored and reamed to a
slip fit tolerance for the piston .

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page 6 of 6

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application

FRANK CORDIALE

Serial No. 09/731,637

Examiner: JUDSON JONES

Filed:

Art Unit:2834

For BRUSHLESS ELECTRIC MOTOR

7.(Amended) A prime mover as set forth in Claim [1]
The cylinder is cylindrical in shape constructed with an
integral center divider of proper diameter and thickness so
as to provide separation of windings. Material of
construction is high temperature resistant polymer.

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application
FRANK CORDIALE
Serial No. 09/731,637
Filed:
For BRUSHLESS ELECTRIC MOTOR

Examiner: JUDSON JONES
Art Unit:2834

This Amendment is in response to the Office Action
dated

8.(Amended) A prime mover as set forth in Claim [2] wherein
the electrical control switches previously referred to as
metal dectectors are now referred to more properly as
optical switches. See Optical Switch Wiring Diagram page 6
Attachment number 6.

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application

FRANK CORDIALE

Serial No. 09/731,637

Examiner: JUDSON JONES

Filed:

Art Unit:2834

For BRUSHLESS ELECTRIC MOTOR

This Amendment is in response to the Office Action
dated

9.(Amended) A prime mover as set forth in Claim[2] wherein
the Electrical Motor Control Board is shown in detail on
Motor Control Circuit Attachment 7

This control board consists of manually dialed selection of
on, off and speed control, by directing the function of the
state of the art computer chips for acceleration or
deceleration thereby controlling the prime mover. The opening
and closing of the time duration for current flow to each
winding is controlled by a Dial Switch.

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application

FRANK CORDIALE

Serial No. 09/731,637

Examiner: JUDSON JONES

Filed:

Art Unit:2834

For BRUSHLESS ELECTRIC MOTOR

This Amendment is in response to the Office Action
dated

10.(Amended)[A prime mover as set forth in Claim[1]wherein
There is a flywheel connected to the crank shaft that is
equipped with a special high polished aluminum disk. The
surface area at face of the disk is designed to interface
during rotation with the optical switches beams to open and
close voltage distribution. A section of the disk is covered
with black dye to interrupt reflection to optical switches
The remaining high polished surface area reflects back to
optical switches and turns them on. This is accomplished by
proper ratio of allocated polished surface area to the
black dyed portion surface area of disk to cause a time
duration, on , off. This is coordinate with the piston
position in prime mover. The location of the optical
switches is at 9 o'clock and 3 o'clock toward face of the
flywheel disk mounted to allow time dwell adjustment and
positioned in such manner as to allow proper interface with
the disk. These optical switches are also enclosed to prevent
transient light sources that may cause interference with
reflection to optical switches .

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application

FRANK CORDIALE

Serial No. 09/731,637

Examiner: JUDSON JONES

Filed:

Art Unit:2834

For BRUSHLESS ELECTRIC MOTOR

This Amendment is in response to the Office Action
dated

11.(Amended) A prime mover as set forth in Claim [1] wherein
said piston is attached to a connecting rod in an enclosure.
This assembly provides rotational motion.

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application

FRANK CORDIALE

Serial No. 09/731,637

Examiner: JUDSON JONES

Filed:

Art Unit:2834

For BRUSHLESS ELECTRIC MOTOR

This Amendment is in response to the Office Action
dated

12.(Amended) A piston is disposed in a cylinder that is
equipped with proper inlet and outlet connections to allow
fluid flow in one direction bottom inlet top discharge to
operate as a sump pump.

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In re application

FRANK CORDIALE

Serial No. 09/731,637

Examiner: JUDSON JONES

Filed:

Art Unit:2834

For BRUSHLESS ELECTRIC MOTOR

This Amendment is in response to the Office Action
dated

13.(Amended) A prime mover comprising a cylindrical framework wound with at least two copper filaments a steel piston disposed axially concentric with said framework, a power source for energizing one of said copper filaments with electric current which induces said steel piston to move axially toward center position of said copper filaments and at least one switch for controlling the energy flow in each of said copper filaments wherein said piston reciprocates based upon the alternate energization of said coils, and exits said cylinder when an exit coil is not energized in one cycle.

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application

FRANK CORDIALE

Serial No. 09/731,637

Examiner: JUDSON JONES

Filed:

Art Unit:2834

For BRUSHLESS ELECTRIC MOTOR

Claim 14.(Amended) A prime mover as set forth in Claim 12 wherein said cylinder further comprises a fluid outlet to operate as a pump.

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application

FRANK CORDIALE

Serial No. 09/731,637

Examiner: JUDSON JONES

Filed:

Art Unit:2834

For BRUSHLESS ELECTRIC MOTOR

Claim 15.(Amended) A prime mover as set forth in Claim [1]
The bias magnets are installed for the purpose of providing
a control means for positioning the starting point of the
piston.

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application

FRANK CORDIALE

Serial No. 09/731,637

Examiner: JUDSON JONES

Filed:

Art Unit:2834

For BRUSHLESS ELECTRIC MOTOR

Claim 16.(Amended) A prime mover as set forth in Claim [1]
Each part of the cylinder is separately wound with one
continuous copper wire, upper portion of cylinder is wound
clockwise and lower portion of cylinder is wound counter
clockwise. The Windings of upper portion terminate at
top juncture of cylinder retainer. The windings of the lower
portion terminate at the bottom juncture of retainer.

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application

FRANK CORDIALE

Serial No. 09/731,637

Examiner: JUDSON JONES

Filed:

Art Unit:2834

For BRUSHLESS ELECTRIC MOTOR

Claim 17.(Amended) Current energizes at least two copper filament to induce a piston toward center of other copper filament.

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